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Commercial Information**SURFACE PREPARATION INNOVATION****Version Date:** March 2011**Title:** Elcometer porosity & pinhole detectors

The premature corrosion of a substrate is often due to the failure of its coating. Major causes of failure are flaws in the finished coating; these include pinholes, holidays, inclusions, thin spots and bubbles. The consequent cost of repairs, loss of production and contamination of the process can be considerable. Early inspection of coating flaws can help prevent the expense and inconvenience of coating failure.

ELCOMETER 266 HOLIDAY SPARK TESTER

The Elcometer 266 makes use of High Voltage Detection Techniques, which locate flaws in insulating coatings on conductive substrates. A power supply within the instrument generates a high DC voltage which is supplied to a probe. An earth voltage return lead from the instrument is connected to an uncoated area of the metal of the test substrate. As the probe is passed over the coated surface, a flaw is indicated by a spark at the contact point with an audible alarm in the detector and a visual alarm in the probe handle.



The High Voltage Technique can also be used effectively to locate flaws in coatings on concrete, making the Elcometer 266 a very versatile tool.

Features

- Ideal for field, site or laboratory testing
- Current limiting to avoid coating damage
- Automatic voltage calculator: No need for lookup tables, simply enter the coating thickness value and select the standard & the gauge will automatically set the voltage.
- Safety hand grip ensures that high voltage can only be generated when the handle is being held.
- Specialised ribbing provides superior protection while an optional second hand grip is ideal for two handed use.
- Dual safety switch on handle to avoid accidental switch on
- Internal jeep tester removes the need for 2 gauges. The closed loop system with internal voltmeter guarantees the voltage output at all times.
- Rugged and waterproof to IP65
- Accurate sensitivity adjustment allows use on metallised or slightly damp coatings.
- Rechargeable & replaceable battery packs can be charged inside or outside the gauge for continued use
- Interchangeable handles: 0.1–5kV, 0.1–15kV or 0.1–30kV adjustable in 0.1kV steps.

Note: Can be used in accordance with: ISO 2746, ANSI/AWWA C 213, AS3894.1, ASTM D4787, ASTM D5162, ASTM G 6, ASTM G 62, BS1344-11, EN14430, JIS G3491, JIS G3492, NACE RP0274, NACE RP 04901, NACE RP0188

SURFACE PREPARATION INNOVATION

Portable/Stationary Abrasive Blast Equipment - Nozzles - Nozzle Holders - Hoses - Couplings - Lighting
Wetblast Equipment - High Pressure Waterjetting - Personal Protection - Blast Cabinets - Dehumidifiers
Blastrooms Vacuum Blast/Recovery Equipment - Portable/Stationary Wheelblast Equipment
Pipe Cleaning/Coating - Air Treatment - Mobile Dust Collectors - Media - Paintspray Equipment
Plural Component - Measuring Instruments

Technical information

Model D266-2	
Voltage	Range of coating thickness
0-5 kV handle	0 – 1.6 mm
0-15 kV handle	0 – 3.75 mm
0-30 kV handle	0 – 7.5 mm
Waterproof IP65 case	
High voltage output accuracy	± 5 % or ± 50V below 1000 Volts
Measured current flow accuracy	± 5 % of full scale
Display resolution	100 Volts, 1µA
Output current	0 – 100 µA maximum
Operating temperature	0°C to 50 °C

ELCOMETER 270 PINHOLE DETECTOR

The Elcometer 270 Range supplies quality low voltage detectors that use the 'wet sponge' method of pinhole detection.

Features

- Automatic voltage calibration & voltage checks
- Visual and audio pinhole alarm
- Integral and separate wand functionality
- Single, dual and triple voltage variants
- Easy release, snag proof cables
- Larger standard sponge – 150 x 60 x 25mm
- Optional photo-flo™ wetting agent for improved pinhole detection
- Low battery indicator



Technical information

Specifications	9V	67.5V	90V
Measurement range	300 microns	500 microns	
Sensitivity	90 kΩ ± 5 %	125 kΩ ± 5 %	400 kΩ ± 5 %
Accuracy of voltage settings	± 5 %		

Note: Can be used in accordance with the following standards: ISO 8289-2000E, BS 1344-11, 7295-1, 8289 A, 7793-2, EN 8289 A, ASTM G6-83, G62-87, D-1562, NACE RP 0188-99

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